

LASTI Interferometer Facility at MIT: Program to Support LIGO II Upgrades

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Guiding philosophy:

Upgrading LIGO detectors entails **interrupting astrophysical observations**.

Upgrade technologies must be exhaustively **tested offline** before integration at the sites.

Campus prototypes are agile, flexible and provide key design validation but, until now, none could accommodate **full scale** suspension and isolation components.

The **LIGO Advanced System Test Interferometer (LASTI)** at MIT will address this gap; **end-to-end integrated testing of optics, mechanics and control systems** at final scale is its primary mission.

